



*"We Help
Put America
Through
School"*

Data Strategy Enterprise-Wide Routing ID (RID)

Data Model Review Session

September 16, 2003



Meeting Objectives

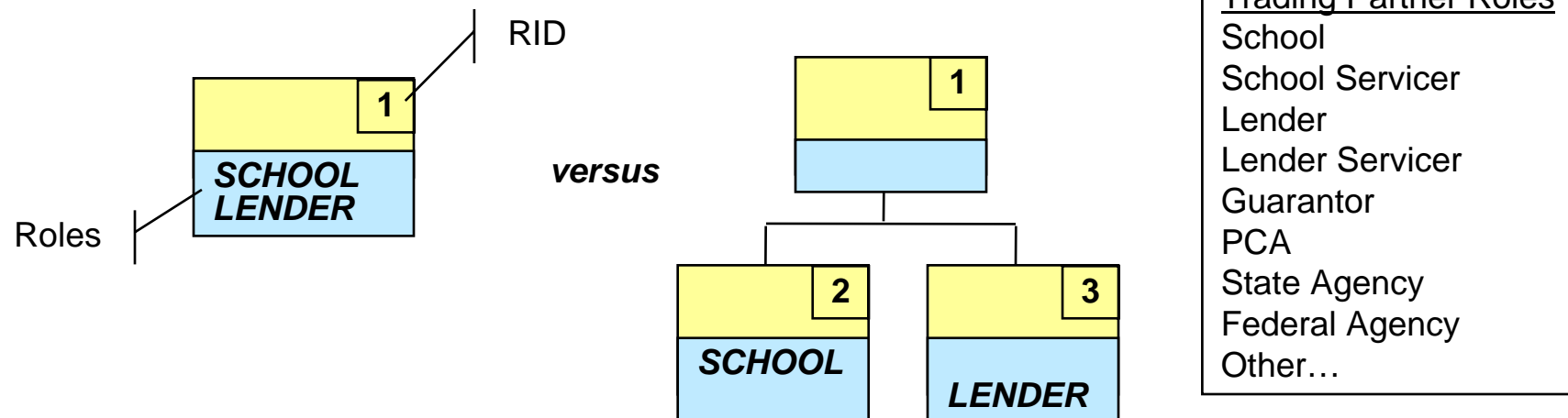
- Review discussion/outcomes to date
- Present/Review current RID data model
- Present/Review case examples using current RID data model



RID Solution Key Points

Key Points

- **Trading Partner Definition:** Entity that conducts business with FSA either via services or information exchange. If an entity does not directly conduct business with FSA (e.g., a school's accrediting agency), then it will not be assigned a RID, but stored as attribute data against a RID bearing entity.
- **Entity versus Entity Roles:** There is a distinction between the trading partner entity and the roles, or business functions, the trading partner is performing. Therefore a single trading partner entity may perform multiple roles (e.g., school and school lender).





RID Solution Key Points

Key Points

- **Relationship Types:** There are two primary relationship categories governing trading partner entities.
 - Business Relationships: Association of two RIDs due to a business relationship. Examples include:
 - Parent / Child: Implies inherent hierarchical relationship
 - Main/Additional Location
 - Customer / Supplier: Non-hierarchical relationship involving transfer of product, services, etc.
 - Lender/Lender Servicer
 - Grouping Relationships: Involves the creation of a RID for the purposes of associating a group of RIDS with no obvious business relationships. Also referred to as roll-ups. Examples include:
 - Lender Parent Group



RID Solution Data Model

High Level Entities



Important Points:

- *Each entity has one or more role(s).*
- *Relationships are not established between entities, but between the roles assigned to an entity.*
- *A role may have multiple relationships tied to it.*

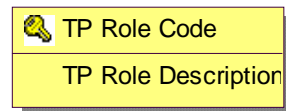


RID Solution Data Model

TRADING PARTNER



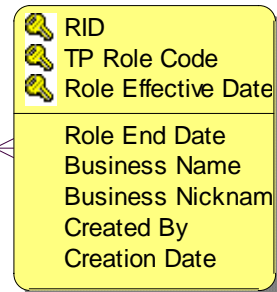
TP ROLE TYPES



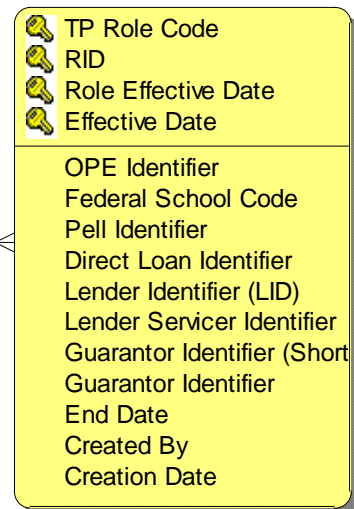
Example Roles include:

- School
- School Servicer
- Lender
- Lender Servicer
- Guarantor
- Guarantor Servicer
- PCA
- Grouping RID
- etc.

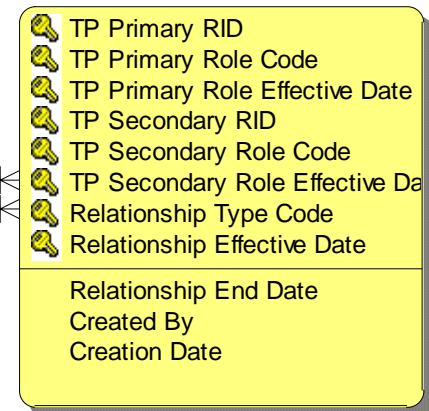
TP ROLES



TP LEGACY IDENTIFIERS

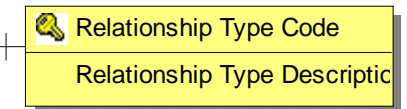


TP RELATIONSHIPS



Relationships are tied between the roles within the trading partner

TP RELATIONSHIP TYPES



Key Points

-Relationships may be established within a single TP entity

Creation => when record entered in system
Effective => when record becomes 'active'



RID Roles

- Currently Defined Roles

- Lender
- Lender Servicer
- Guarantor
- Guarantor Servicer
- School
- School Servicer
- School Other
- Private Collection Agency
- State Agency
- Federal Agency
- Grouping
- Owner
- Administrative Site

- Critical questions:

- Additional roles required?
- Additional attributes needed for the Trading Partner or its roles?



RID Relationships

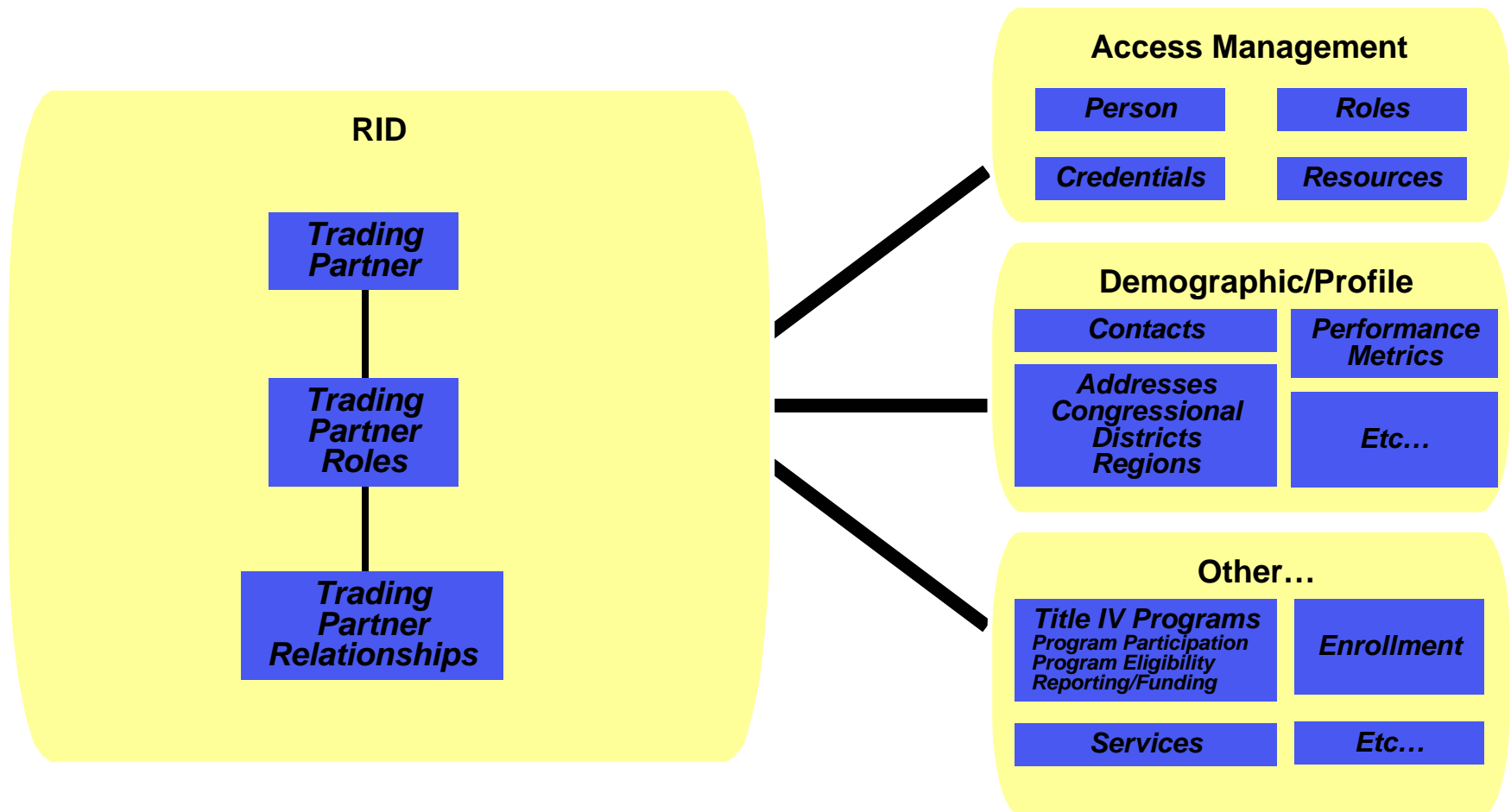
- Currently Defined Relationships
 - Lender/GAs
 - Lender/Lender Servicer
 - GA/GA Servicer
 - Main/Location
 - School/School Servicer
 - School/Lender
 - Grouping

- Critical questions:
 - Additional relationships required?
 - Characteristics of relationships?



RID Solution within TPM

- Trading Partner Management solution would contain additional data regarding trading partners. RID is a key component to TPM.





COD Data Model Mapping

General Information

Routing ID	OPE ID	Previous OPE ID	School Name	Title IV Approval	Close Date	Main Location ID	GAPS Award Seq #
11111111	00175900		School A	Y		11111111	1234
22222222	00175901		School B	Y		11111111	

School Identifiers

Routing ID	Identifier Type	Identifier
11111111	DL	G01759
11111111	Pell	001759
22222222	DL	E00606
11111111	DUNS	006331342

Program Relationships

Routing ID	Program	Reporting ID	Funding ID	Allow DD	System Generated Payment
11111111	DL	11111111	11111111	Y	N
22222222	DL	11111111	22222222	Y	N
11111111	PL	11111111	11111111	Y	N

KEY:

Red Circle = Information stored within RID Solution Data Model

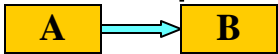


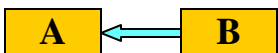
Blue Circle = Information stored within TPM Solution Data Model



Case Examples Using RID Data Model

The RID team has been testing a data model that will allow all trading partner entities to always maintain their RID regardless of any relationships or additional roles they might perform within the FSA Enterprise.

- Developed from our Core team meetings, we have assembled five examples of how the RID solution would work within the test data models. The following examples establish two schools, and walk through the four major categories of Changes of Affiliation.

<u>Category</u>	<u>Example</u>
• Consolidation	
• Redesignation	
• Location to Freestanding	
• Absorption	

- The final example shows how a large school system like the University of Maryland would be managed within this data model.



Creating a Trading Partner: School Example

- School A is created.
- Trading Partner Table Updated
- Trading Partner Roles Table Updated
- Other attribute tables updated as well

School A	
	11111111

Trading Partner					
RID	TP Name	Creation Date	Updated Date	Effective Date	End Date
11111111	School A	7/1/72	7/1/72	8/1/72	

Trading Partner Roles					
RID	Role Code	Effective date	Business Name	Creation Date	End Date
11111111	School	8/1/72	School A	7/1/72	



Creating a Trading Partner: School Example

- A second school is created - School B
- Trading Partner Table Updated
- Trading Partner Roles Table Updated
- Other attribute tables updated as well

School A	
	11111111

School B	
	22222222

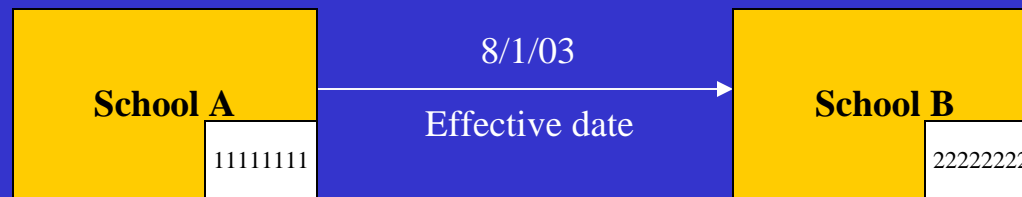
Trading Partner					
RID	TP Name	Creation Date	Updated Date	Effective Date	End Date
11111111	School A	7/1/72	7/1/72	8/1/72	
22222222	School B	7/1/78	7/1/78	8/1/78	

Trading Partner Roles					
RID	Role Code	Effective date	Business Name	Creation Date	End Date
11111111	School	8/1/72	School A	7/1/72	
22222222	School	8/1/78	School B	6/1/78	



Change of Affiliation: Consolidation

- School 'A' buys School 'B'.
- Trading Partner Relationship Table is updated
- Parent/Child Relationship Created
- Other attribute tables updated as well



Trading Partner					
RID	TP Name	Creation Date	Updated Date	Effective Date	End Date
11111111	School A	7/1/72	7/1/72	8/1/72	
22222222	School B	7/1/78	7/1/78	8/1/78	

Trading Partner Roles					
RID	Role Code	Effective date	Business Name	Creation Date	End Date
11111111	School	8/1/72	School A	7/1/72	
22222222	School	8/1/78	School B	6/1/78	

Trading Partner Relationships									
TP Prime RID	TP Prime RID Code	TP Prime Role Effective Date	TP 2 nd RID	TP Secondary Role Code	TP Secondary Effective Role Date	Relationship Type Code	Relationship Create Date	Relationship Effective Date	Expire Date
11111111	School	8/1/72	22222222	School	8/1/78	Main/Addtl Loc	7/1/03	8/1/03	



Change of Affiliation: Redesignation

- School 'A' and School 'B' switch their Main Campus and Additional Location designations.
- Other attribute tables updated as well



Trading Partner					
RID	TP Name	Creation Date	Updated Date	Effective Date	End Date
11111111	School A	7/1/72	7/1/72	8/1/72	
22222222	School B	7/1/78	7/1/78	8/1/78	

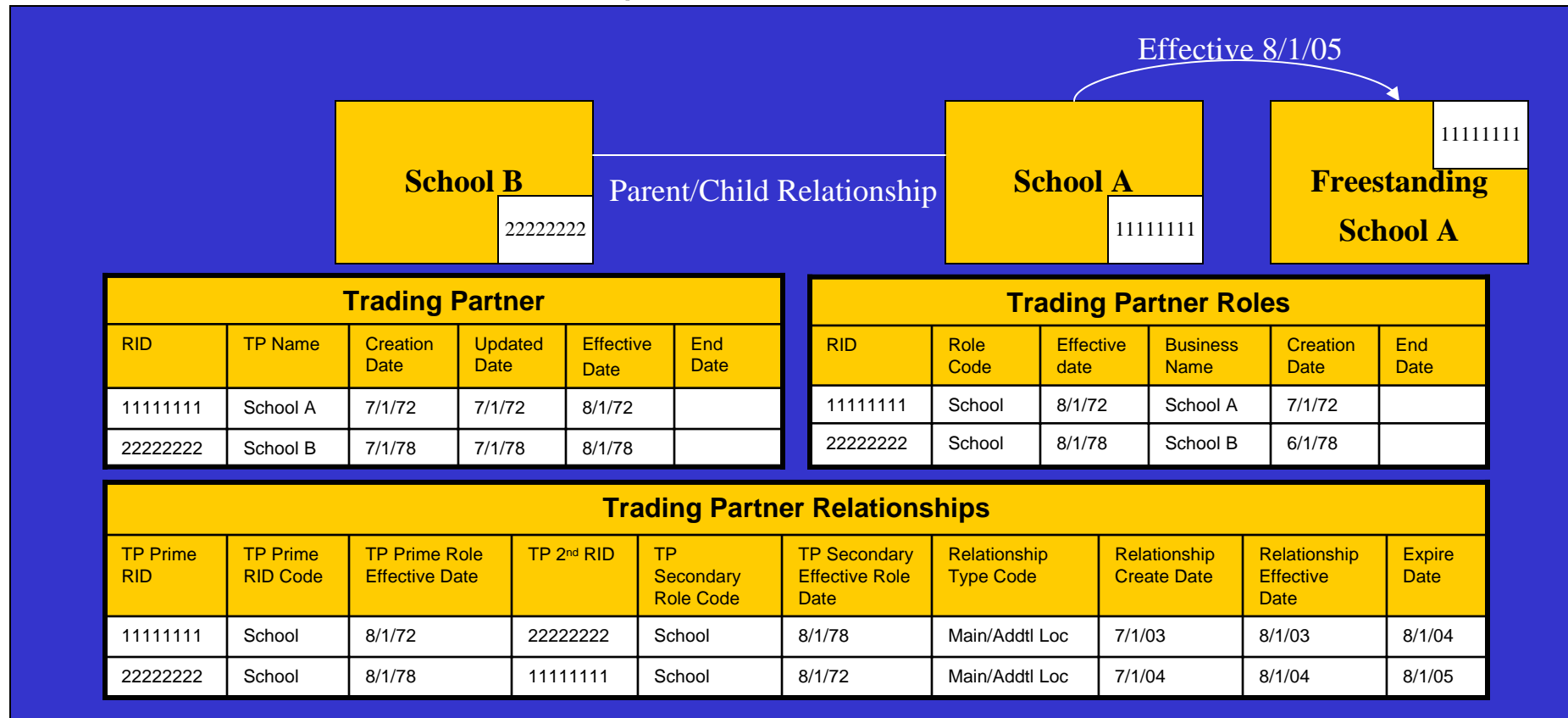
Trading Partner Roles					
RID	Role Code	Effective date	Business Name	Creation Date	End Date
11111111	School	8/1/72	School A	7/1/72	
22222222	School	8/1/78	School B	6/1/78	

Trading Partner Relationships									
TP Prime RID	TP Prime RID Code	TP Prime Role Effective Date	TP 2 nd RID	TP Secondary Role Code	TP Secondary Effective Role Date	Relationship Type Code	Relationship Create Date	Relationship Effective Date	Expire Date
11111111	School	8/1/72	22222222	School	8/1/78	Main/Addtl Loc	7/1/03	8/1/03	8/1/04
22222222	School	8/1/78	11111111	School	8/1/72	Main/Addtl Loc	7/1/04	8/1/04	



Change of Affiliation: Location to Freestanding

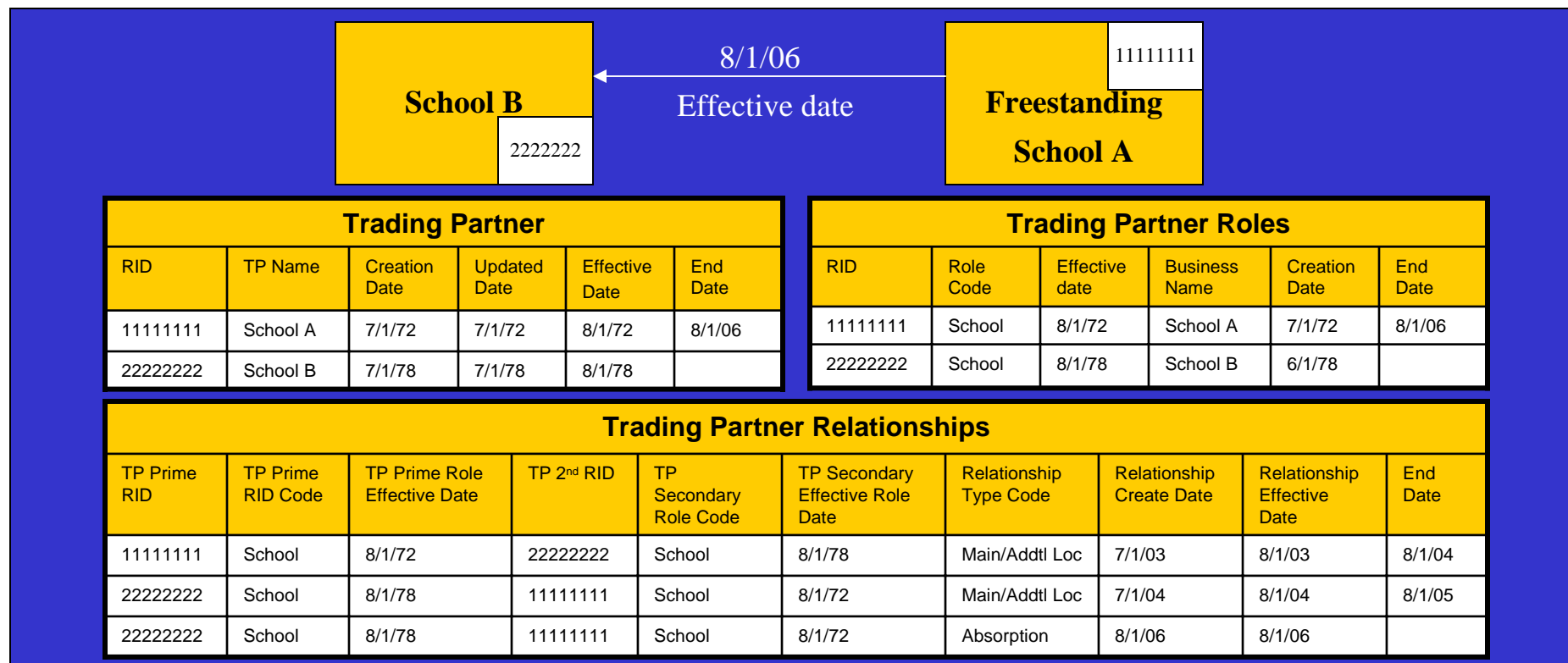
- School 'B' spins-off School 'A', and School 'A' becomes Freestanding.
- Trading Partner Relationship table is updated
- Other attribute tables updated as well





Change of Affiliation: Absorption

- School 'A' merges with School 'B'
- Previous relationship between institutions is maintained
- Other attributes tables updated



University of Maryland



■ Real-life scenario:

Balt City CC		Parent/Child	Balt CCC - Harbor	
	21699531	Relationship		33333333
Townson St. Univ		Parent/Child	Townson – C. Center	
	96310627	Relationship		44444444
12 other Various ‘Parent’ Locations		Parent/Child	32 other ‘Children’ Locations attached to	
	#####	Relationships	Various Parents	
				#####

Trading Partner					
RID	TP Name	Creation Date	Updated Date	Effective Date	End Date
21699531	Balt City CC	7/1/72	7/1/72	21699531	
96310627	Townson St. Univ	7/1/59	7/1/59	96310627	
33333333	Balt CC – Harbor	7/1/78	7/1/78	33333333	
44444444	Townson Ctr	7/1/80	7/1/80	44444444	

Trading Partner Roles					
RID	Role Code	Effective date	Business Name	Creation Date	End Date
21699531	School	8/1/72	Balt City CC	7/1/72	
96310627	School	8/1/59	Townson St U	7/1/59	
33333333	School	8/1/78	Balt C Harbor	7/1/78	
44444444	School	8/1/80	Townson Ctr	7/1/80	

Trading Partner Relationships									
TP Prime RID	TP Prime RID Code	TP Prime Role Effective Date	TP 2nd RID	TP Secondary Role Code	TP Secondary Effective Role Date	Relationship Type Code	Relationship Create Date	Relationship Effective Date	End Date
21699531	School	8/1/72	33333333	School	8/1/78	Main/Addtl Loc	7/1/78	8/1/78	
96310627	School	8/1/59	44444444	School	8/1/80	Main/Addtl Loc	7/1/80	8/1/80	